

JUN 14 2007

Docket No.: 4590-397

PATENTREMARKS

Reconsideration and allowance of the subject application in view of the foregoing amendments and the following remarks is respectfully requested.

Claims 1-17 remain pending in the application.

The disclosure is objected to because of the noted informalities. In response, the specification has been amended and accordingly the objection should be withdrawn.(c my chgs in the substitute spec)

Claims 1, 2, 4, 8, 9, 10, 15, 16, and 17 are objected to as set forth in the Office Action. In response, these claims have been amended and accordingly the objection should be withdrawn. (c my chgs in the claims)

Claims 1-17 are rejected under 35 USC 103(a) as being unpatentable over Hung et al. in view of Sokolov. In response, claim 1 has been amended and is believed to be patentable over Hung et al. for the reasons discussed below.

The invention relates to an electronic component for applications at millimetric frequency mounted in an individual package. This component is used for radar type application and can transmit at millimetric wave frequencies and receive a wave reflected by obstacles. This component has at last two ports for communicating between the exterior and the interior of the package. A first port has a transition by electromagnetic coupling (without contact) at a working main frequency F and a second port has a microstrip line or coaxial type transition working at frequency F/N that is a subharmonic of the main frequency F .

The component, according to the invention, for microwave applications simplifies the interconnection between chips working with very high frequencies. The fact that the component, according to the invention, includes a port a microstrip working a F/N , F being the frequency of functioning of the port with transition by contactless electromagnetic coupling, allows to interconnect several components in RF by standard connections on the substrate without cabling. The component of the invention can be supported on the surface of the substrate by a low cost standard process as SMD (surface mounted device).

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The millimetric-wave frequency component of Hung has, as in the invention, a first port with transition by electromagnetic coupling (without contact) and a second port with a microstrip line or coaxial type transition but the two ports in Hung are working at the same frequency F. This is different from the electronic component of the invention.

Hung et al does not try to resolve the same problem as that is resolved by the component as recited in amended claim 1. Hung et al disclose a waveguide to microstrip transition working at the same frequency.

Also Sokolov does not try to resolve the same problem as that is resolved by the component according to the invention

Sokolov shows a millimeter-wave low phase noise signal source realized from an oscillator and a multiplier by two. These two main functions are integrated into the same package containing the only output of signal source. It is known to one of ordinary skill in the art how to realize sources with very low noise with very high frequencies by using an oscillator with a lower frequency then multiplying the frequency of the oscillator to obtain the very high frequency (see lines 40-45, column 4 of Sokolov).

The problem of interconnection RF between components does not exist in Sokolov because the low phase noise signal source because Sokolov has only output.

It is easy to assert, once the invention is known, that the expert skilled in the art would use the multiplier of the millimeter-wave low phase noise signal source of Sokolov in the waveguide to microstrip transition of Hung, but there is no reason for making it because nothing indicates in the documents of Hung or Sokolov that they want to resolve the same for problems resolved by the electronic component according to the invention.

Accordingly, the obvious rejection should be withdrawn. Dependent claims 2-17 recite additional, important limitations and should be patentable over this combination of references for the reasons discussed above with respect to claim 1 as well as on their own merits.

Early issuance of a Notice of Allowance is courteously solicited.

The Examiner is invited to telephone the undersigned, Applicant's attorney of record, to facilitate advancement of the present application.

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To the extent necessary, a petition for an extension of time under 37 C.F.R. 1.136 is hereby made. Please charge any shortage in fees due in connection with the filing of this paper, including extension of time fees, to Deposit Account 07-1337 and please credit any excess fees to such deposit account.

Respectfully submitted,

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